

Figure 1

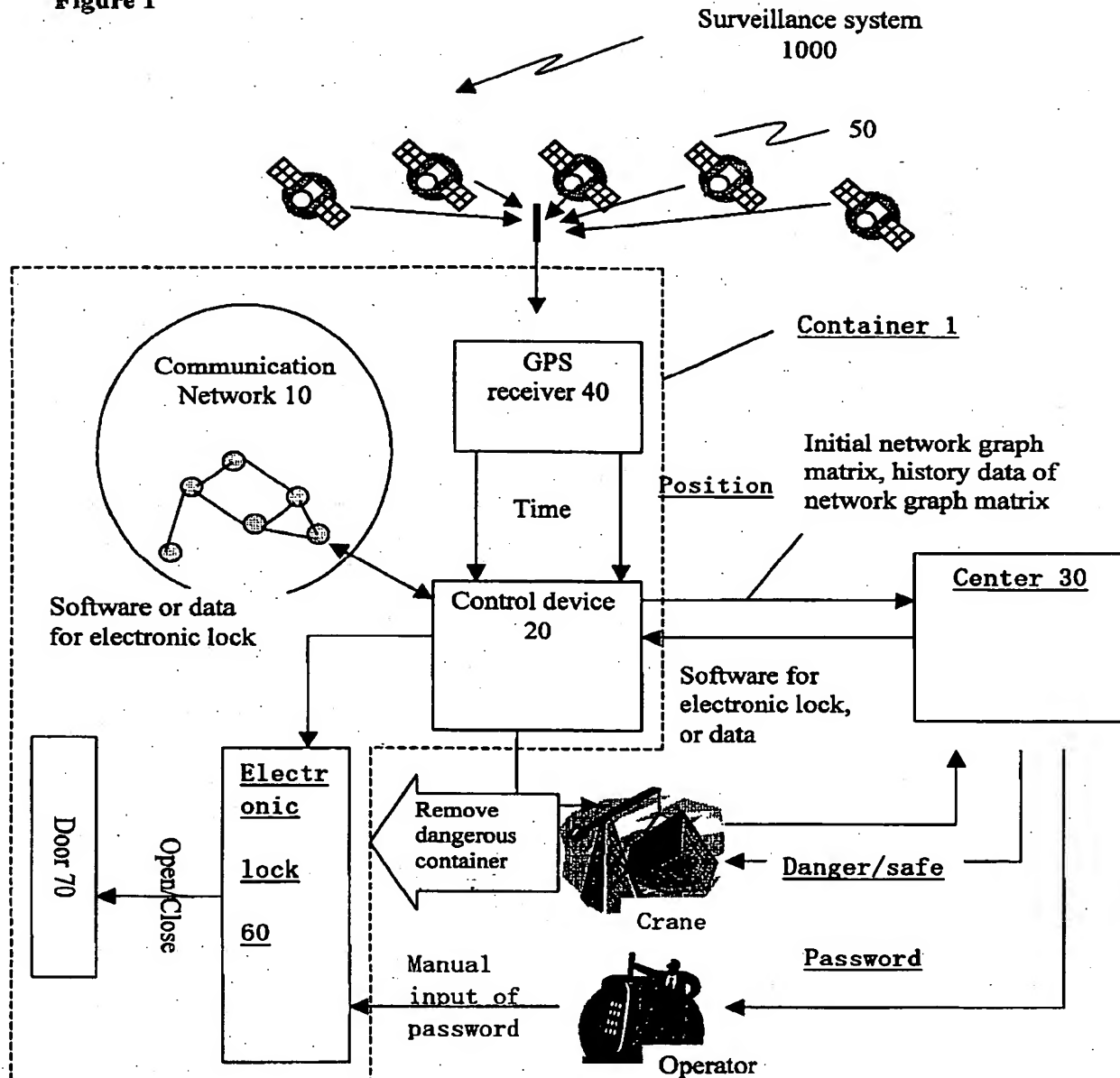


Figure 2 (A)

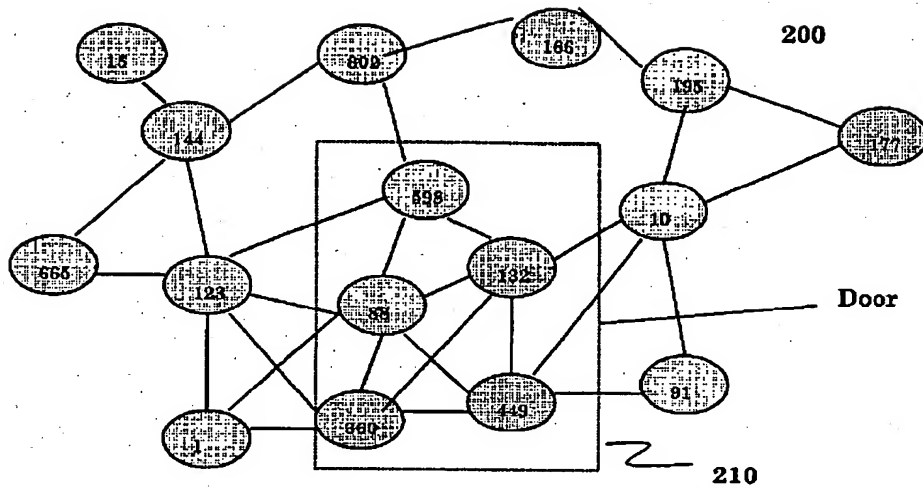
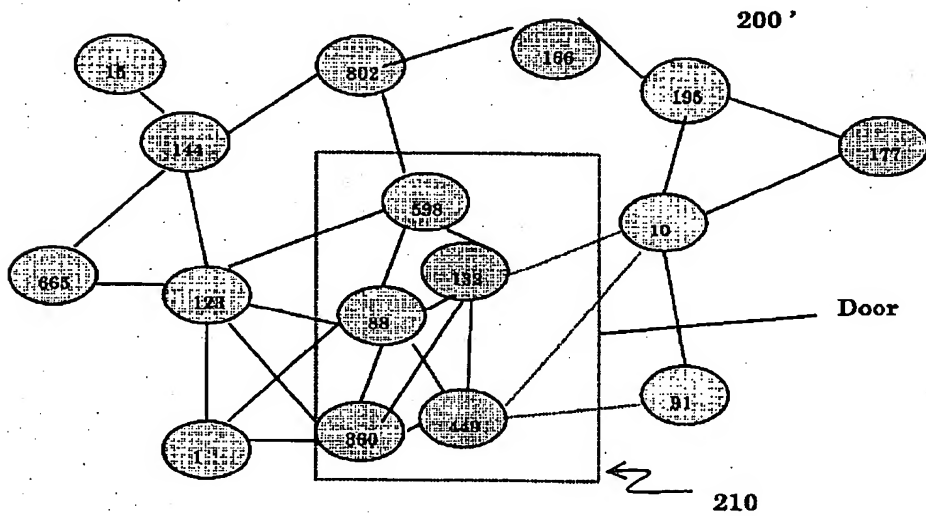


Figure 2 (B)



**Figure 3(A)**

Network graph matrix corresponding to the network graph shown in Figure 2(A)

If there is a link, indicated by 1, if no, indicated by 0

The first row and column indicate the number of communication node

300

	15	665	144	123	1	802	598	88	360	166	132	449	195	10	91	177
15	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
665	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
144	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0
123	0	1	1	0	1	0	1	1	1	0	0	0	0	0	0	0
1	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0
802	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0
598	0	0	0	1	0	1	0	1	0	0	1	0	0	0	0	0
88	0	0	0	1	1	0	1	0	1	0	1	1	0	0	0	0
360	0	0	0	1	1	0	1	0	0	0	1	1	0	0	0	0
166	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
132	0	0	0	0	0	0	1	1	1	0	0	1	0	1	0	0
449	0	0	0	0	0	0	0	1	1	0	1	0	0	1	1	0
195	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1
10	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	1
91	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
177	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0

**Figure 3(B)**

Network graph matrix corresponding to the network graph shown in Figure 2(B)

300

	15	665	144	123	1	802	598	88	360	166	132	449	195	10	91	177
15	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
665	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
144	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0
123	0	1	1	0	1	0	1	1	1	0	0	0	0	0	0	0
1	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0
802	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0
598	0	0	0	1	0	1	0	1	0	0	1	0	0	0	0	0
88	0	0	0	1	1	0	1	0	1	0	1	1	0	0	0	0
360	0	0	0	1	1	0	1	0	0	0	1	1	0	0	0	0
166	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
132	0	0	0	0	0	0	1	1	1	0	0	1	0	0	0	0
449	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0
195	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1
10	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
91	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
177	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0

Figure 4

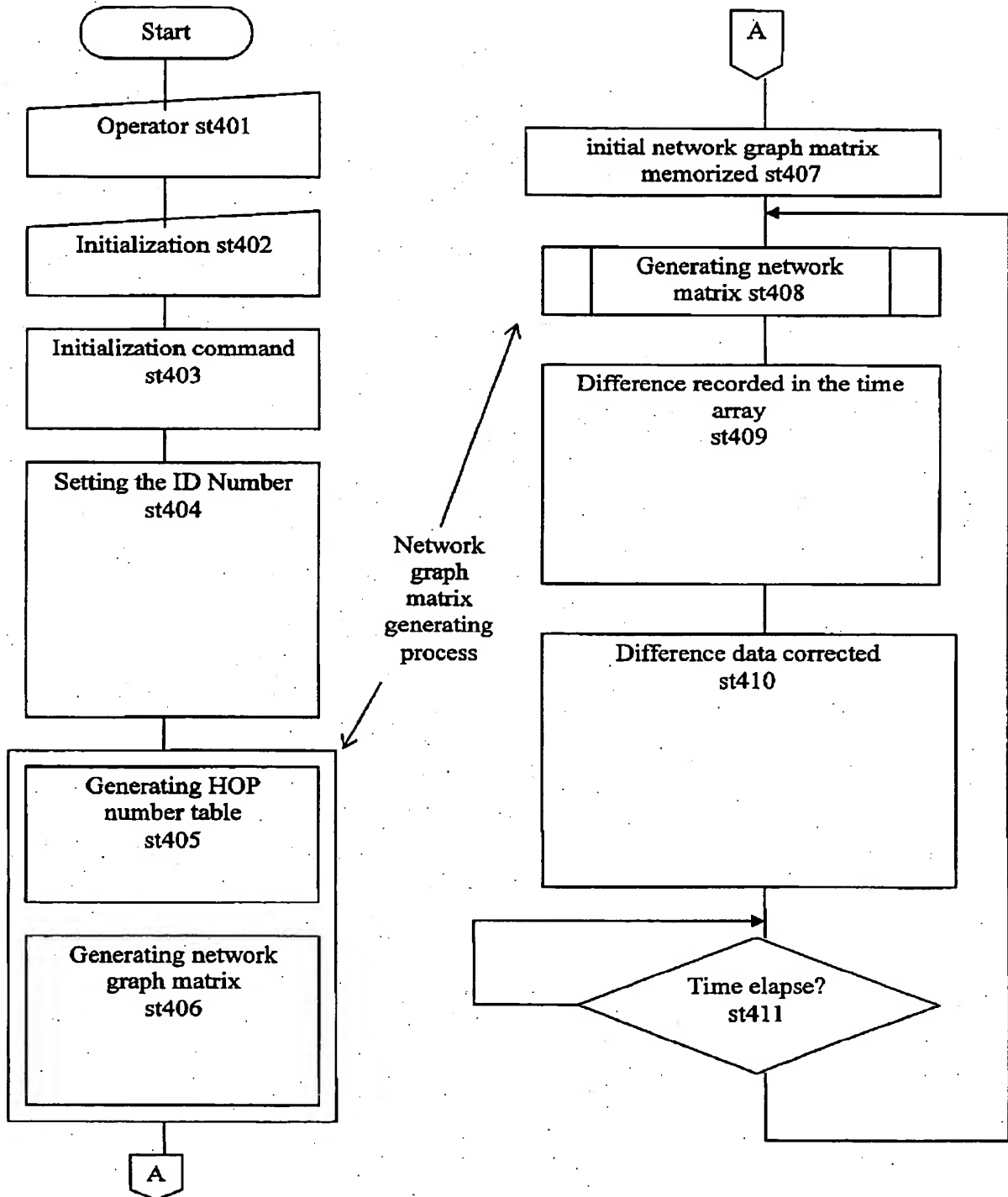


Figure 5

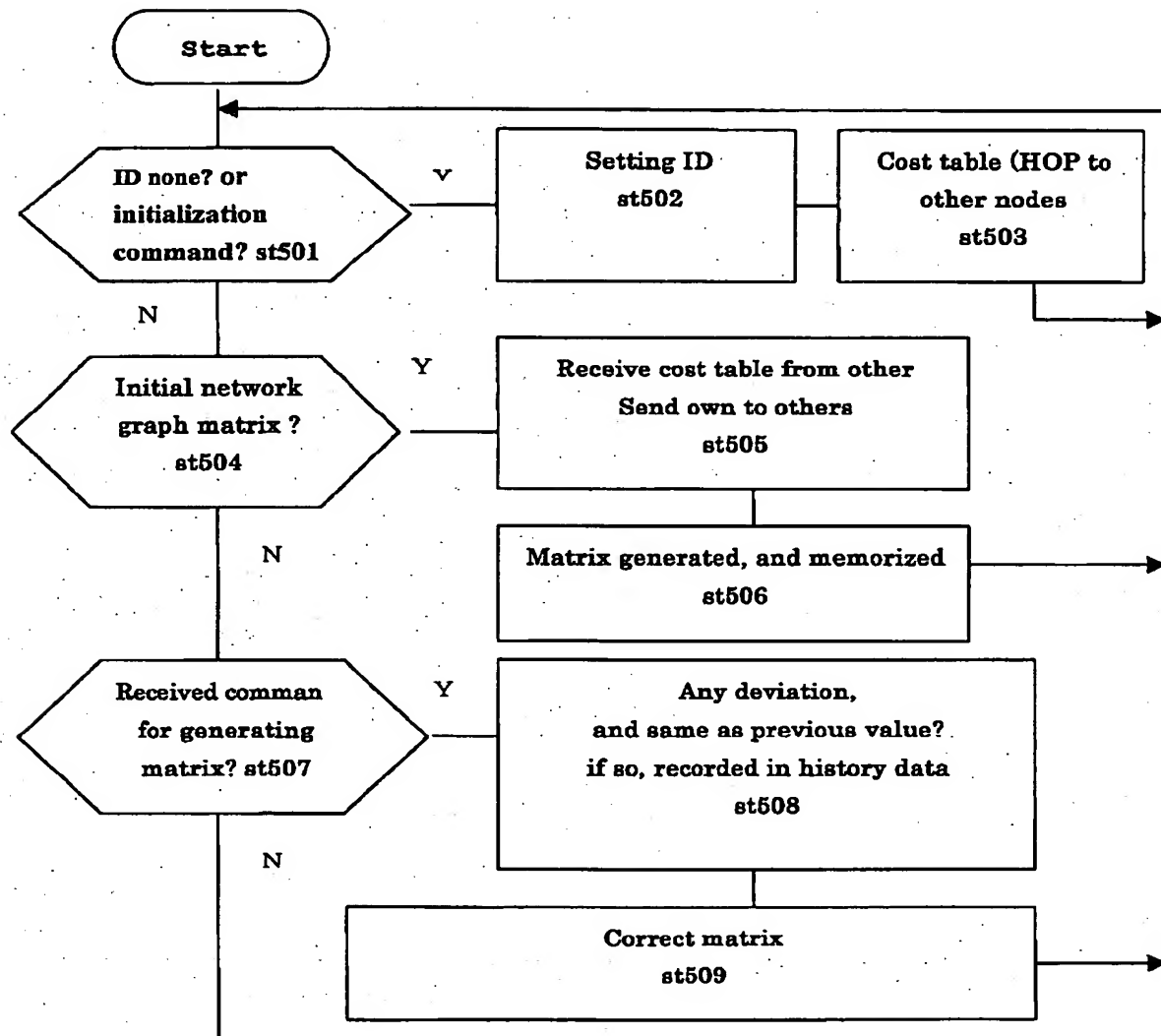


Figure 6

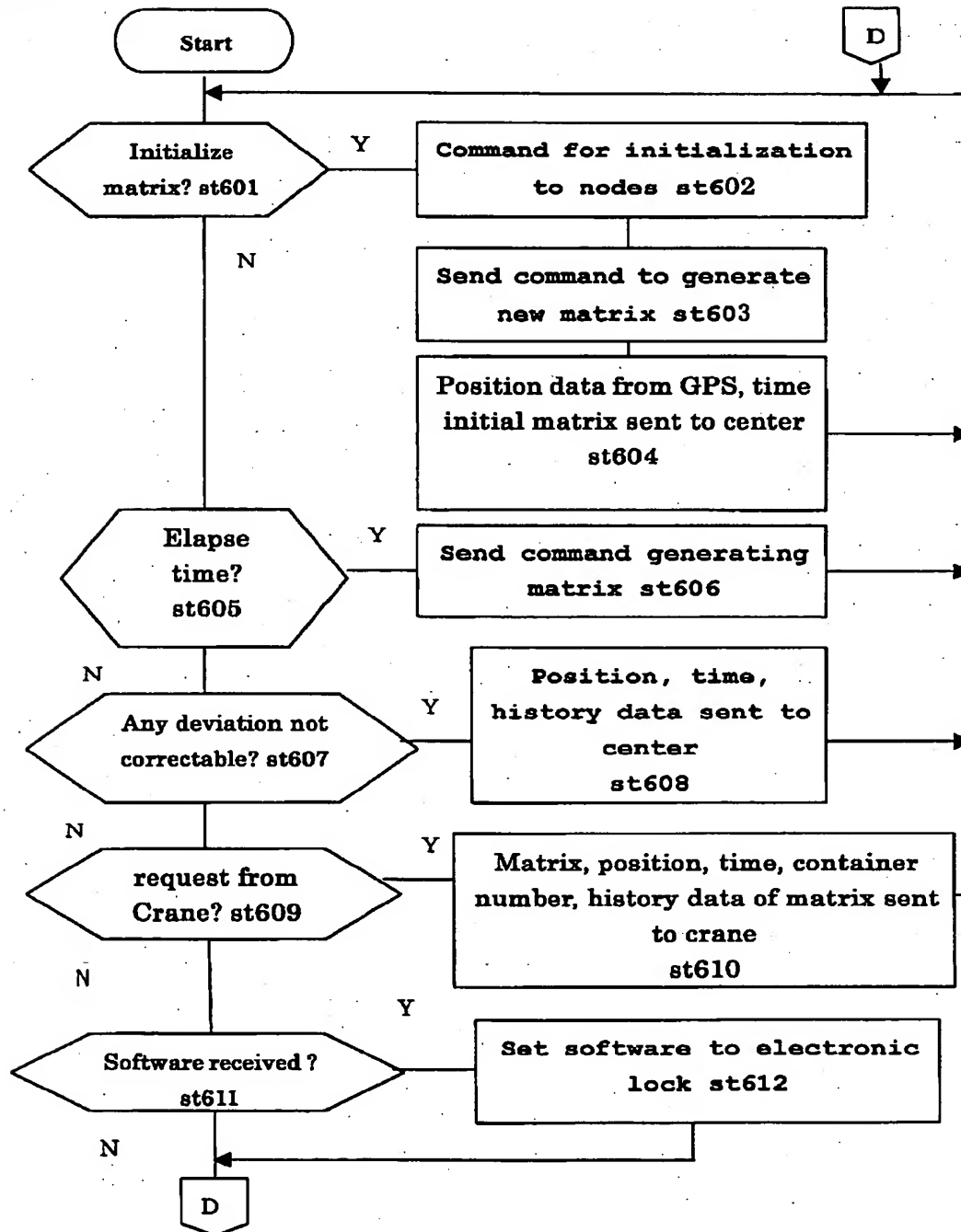


Figure 7

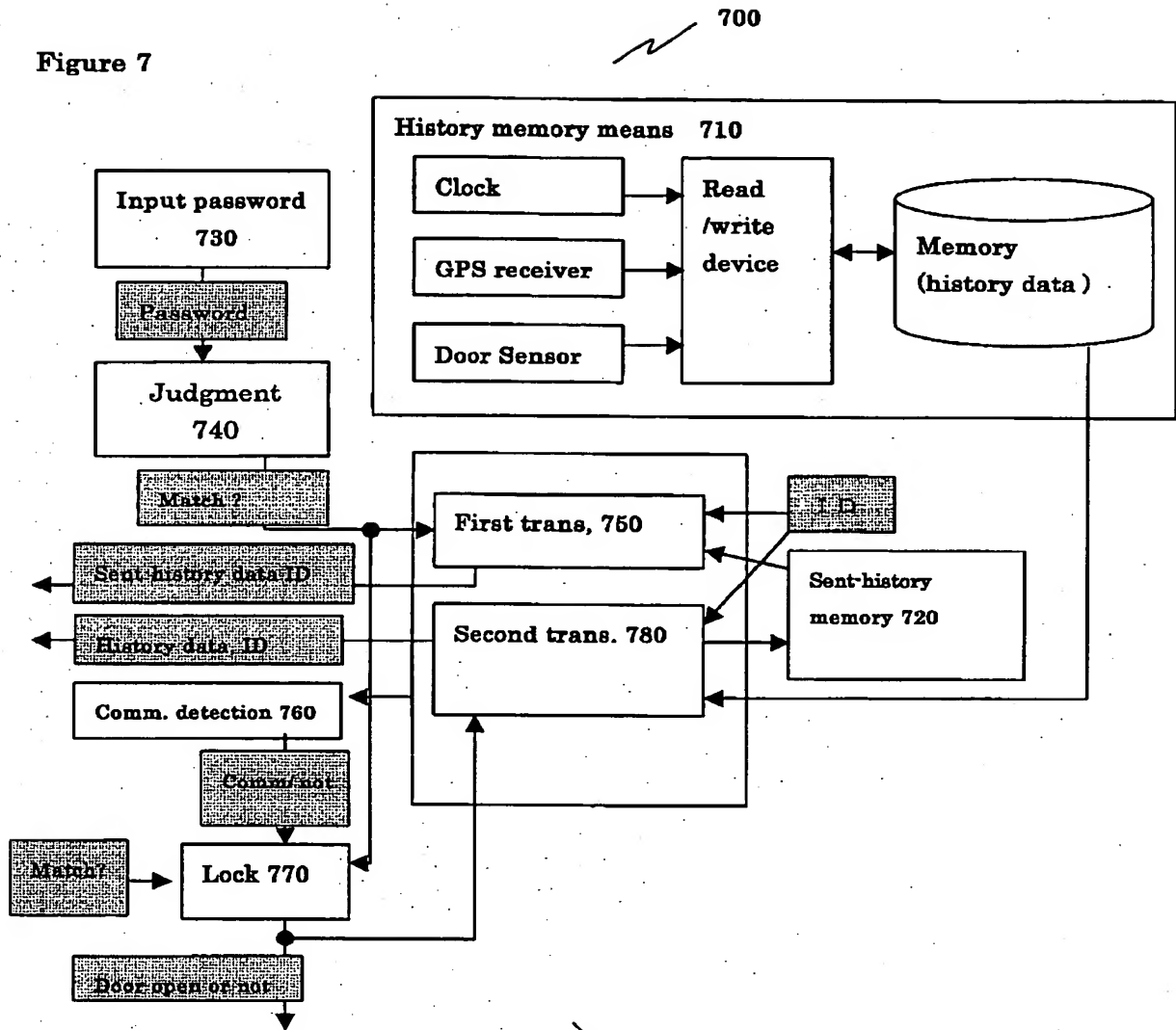


Figure 8

